# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 1038-13 PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2005/007953	International filing date (day/month/year) 14 March 2005 (14.03.2005)	Priority date (day/month/year) 19 March 2004 (19.03.2004)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	· · · · · · · · · · · · · · · · · · ·	•
Applicant RESEARCH FOUNDATION OF THE	HE CITY UNIVERSITY OF NEW YORK		

1.	This international preliminary rep International Searching Authority	port on patentability (Chapter v under Rule 44 bis.1(a).	I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	of 4 sheets, including this cov	ver sheet.
	In the attached sheets, any referent to the international preliminary re	nce to the written opinion of the port on patentability (Chapter	he International Searching Authority should be read as a reference r I) instead.
3.	This report contains indications re	elating to the following items	:
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opini applicability	on with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	·
	Box No. VII	Certain defects in the interr	national application
	Box No. VIII	Certain observations on the	international application
4.	The International Bureau will connot, except where the applicant mate (Rule 44bis .2).	mmunicate this report to designakes an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but r Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 20 February 2007 (20.02.2007)
	The International Burea 34, chemin des Colo 1211 Geneva 20, Sw	mbettes	Authorized officer  Masashi Honda
Facsin	mile No. +41 22 338 82 70	a conce de la la	e-mail: pt08.pct@wipo.int

Form PCT/IB/373 (January 2004)

### PATENT COOPERATION TREATY

INTERNA	TIONAL SEARC	HING AUTHO	DRITY		
6900 JER	NN & BARON, ICHO TURNPIK			77	PCT
SYOSSE	I, NY 11791				RITTEN OPINION OF THE TONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
Amiliant	'a az azast'a £1a a			Date of mailing (day/month/year	
1038-13 F	's or agent's file r	cicience		FOR FURTHE	R ACTION See paragraph 2 below
	nal application No	<u>,                                      </u>	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US0:			14 March 2005 (14.03.2)	•	19 March 2004 (19.03,2004)
		ication (IPC) or	r both national classificat		19 Watch 2004 (19.05.2004)
USPC:	B05D 5/12( 2007 427/128,130	.01)			
Applicant					
REASEAL	RCH FOUNDATI	ON OF THE C	CITY UNIVERSITY OF	NEW	
1. This c	pinion contains in	ndications relat	ting to the following item	s:	
$\boxtimes$	Box No. I	Basis of the	opinion		•
	Box No. II	Priority			
	Box No. III	Non-establish	hment of opinion with reg	gard to novelty, inv	entive step and industrial applicability
	Box No. IV	Lack of unity		•	
$\boxtimes$	Box No. V	Reasoned state	tement under Rule 43bis. citations and explanation	1(a)(i) with regard as supporting such a	to novelty, inventive step or industrial statement
	Box No. VI	Certain docur	ments cited		
	Box No. VII	Certain defec	ts in the international app	lication	
	Box No. VIII	Certain obser	vations on the internation	al application	
2. <b>FUR</b> 7	THER ACTION	V			·
Interna Author	ational Prelimina rity other than thi	ry Examining is one to be the	Authority ("IPEA") exc	cept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) ered.
IPEA a	a written reply to:	gether, where a	considered to be a writte appropriate, with amendar piration of 22 months from	ents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later
	ther options, see			- To Konson aires	
3. For fur	ther details, see n	otes to Form P	CT/ISA/220.		
Name and	mailing address o	fthe ISA/TIC	Date of com-1-4	on of this online	Authorized officer
М	ail Stop PCT, Attn:	ISA/US		on of this opinion	Authorized officer
	ommissioner for Pat O. Box 1450	ents	14 November 20	06 (14.11.2006)	Alain L. Bashor Jean Proctor
A1	exandria, Virginia 2 o. (571) 273-320				Telephone No. 5Paralagal Specialist
r acountie IA	1/007/	A			V'\

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US05/07953	

Box N	o. I Basis of this opinion
1 177.41	
	regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
1.	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
}	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3. 4. Addition	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
Ome Deline	SA/237(Box No. I) (April 2005)
いね としょ/ブ	DAY 62 (LEUA INC. 1) (ADDI 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/07953

. Statement		
Novelty (N)	Claims 1-26	Y
	Claims NONE	
Inventive step (IS)	Claims <u>3-12, 16</u>	
	Claims <u>1-2, 13-15, 17-26</u>	N
Industrial applicability (IA)	Claims 1-26	Y
	Claims NONE	N
Citations and explanations:		
<del>-</del>	ler PCT Article 33(3) as being obvious over Hirsch et a	1 .
Refer is disclosed providing a plurality of bacterial Reference surfaces that contact the bacterial magnetic	magnetic nanocrystals each with an outer layer. Nanotunanocrystals (see abstract; paragraphs 0003-0011).	bes having interior and
here is not disclosed the ability to explicitly "absor	rb" as claimed.	
would have been obvious to one with ordinary ski	ill in the art to include absorption because Hirsh et al te	aches bonding.
	•	
laims 1-26 meet the criteria set out in PCT Article n be made or used in industry.	33(4), and thus meet the industrial applicability because	e the subject matter claim
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